

# TerraDrain® Sheet 54/2

TerraDrain® Sheet 54/2 prefabricated drains are constructed using a perforated, formed polystyrene drainage core with a nonwoven filter fabric bonded to both sides. The filter fabric prevents soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides.

TerraDrain® Sheet 54/2 products are designed for subsurface, double-sided drainage applications requiring a moderate compressive strength and flow capacity. TerraDrain® Sheet 54/2 is available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY	TEST METHOD	ENGLISH	METRIC
<b>Fabric</b>			
Material <sup>1</sup>		<b>PP</b>	<b>PP</b>
Water Flow Rate	ASTM D4491	<b>150 gpm/ft<sup>2</sup></b>	<b>6113 Lpm/m<sup>2</sup></b>
Grab Tensile Strength	ASTM D4632	<b>130 lbs</b>	<b>0.578 kN</b>
CBR Puncture Resistance	ASTM D6241	<b>360 lbs</b>	<b>1.55 kN</b>
Apparent Opening Size	ASTM D4571	<b>70 US Std. Sieve</b>	<b>0.210 mm</b>
Permittivity	ASTM D4491	<b>2.1 sec<sup>-1</sup></b>	<b>2.1 sec<sup>-1</sup></b>
Grab Elongation	ASTM D4632	<b>70 %</b>	<b>70 %</b>
UV Resistance	ASTM D4355	<b>70 % @ 500 hrs</b>	<b>70 % @ 500 hrs</b>
AASHTO M 288-06 <sup>2</sup>	Survivability	<b>Class 3</b>	<b>Class 3</b>
<b>Core</b>			
Material <sup>1</sup>		<b>PP/HIPS</b>	<b>PP/HIPS</b>
Thickness	ASTM D1777	<b>0.25 in</b>	<b>6.35 mm</b>
Compressive Strength	ASTM D1621	<b>11000 lbs/ft<sup>2</sup></b>	<b>527 kPa</b>
Flow Rate <sup>3</sup>	ASTM D4716	<b>12.5 gpm/ft</b>	<b>155 Lpm/m</b>

1 PP = Polypropylene; HIPS = High Impact Polystyrene

2 AASHTO Designation: M 288-06 Standard Specification for Highway Applications; American Association of State Highway and Transportation Officials, 2006. Geotextile survivability classification from installation stresses in subsurface drainage applications.

3 In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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